

Recovery Plan Action Status

Plan Name: American Burying Beetle Recovery Plan

Plan Status: Final

Plan Date: 27-Sep-91

Lead Agency: USFWS

Lead Office: Oklahoma Ecological Services Field Office

(918)

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Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
American burying beetle (Nicrophorus americanus)	1	1.11	Monitor existing wild populations - Oklahoma	Ongoing Current	Prior to FY 1995		Oklahoma Department of Wildlife Conservation , Oklahoma Natural Heritage Inventory , Region 2, Fish and Wildlife Enhancement	Research: Population Surveys	Contract	Since Nicrophorus is an annual species, annual monitoring is needed to determine status
American burying beetle (Nicrophorus americanus)	1	1.12	Monitor existing wild populations - Block Island	Ongoing Current	Prior to FY 1995		The Nature Conservancy, Region 5, Fish and Wildlife Enhancement, Audubon Society of Rhode Island, Rhode Island Division of Fish and Wildlife	Research: Population Surveys	Graduate Student, Internal Field Assistance, Species Expert	Since Nicrophorus is an annual species, annual monitoring is needed to determine status

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American burying beetle (<i>Nicrophorus americanus</i>)	2	1.21	Review Federal activities in Oklahoma, Rhode Island, and other areas	Ongoing Current	Prior to FY 1995		Region 5, Fish and Wildlife Enhancement, Region 2, Fish and Wildlife Enhancement, USFWS Region 3, Fish and Wildlife Enhancement, USFWS Regional Office 4 - Fish and Wildlife Enhancement, USFWS Regional Office 6 - Fish and Wildlife Enhancement, Other Federal land managing agencies such as the U.S. Forest, National Park Service, Bureau of Reclamation, Tennessee Valley Authority, Department of Defense (including Corps of Engineers, Army, Air Force, and Marine Corps), Public Utilities Commission, Rural Electrification Administration, and Bureau of Indian Affairs	Other: Regulations	Internal Technical Assistance	Costs are \$5k per year in R2, \$0.5k per year in R5, and \$3k per year in R3, R4, & R6; Surveys will be required in localities with recent historical collections.
American burying beetle (<i>Nicrophorus americanus</i>)	2	1.22	Determine ownership and protect existing habitat - Rhode Island	Complete	Prior to FY 1995	FY 2006	The Nature Conservancy / Block Island Conservancy, R5 Fish & Wildlife Enhancement, Realty	Acquisition, Acquisition: Easement, Acquisition: Management Agreement	Internal Field Assistance, Species Expert	Does not include land costs
American burying beetle (<i>Nicrophorus americanus</i>)	2	1.23	Determine ownership and protect existing habitat - Oklahoma	Ongoing Current	Prior to FY 1995		Oklahoma Department of Wildlife Conservation, Oklahoma National Guard, Camp Gruber, R2 Fish & Wildlife Enhancement, Realty	Other: Regulations	Internal Field Assistance	Does not include land costs

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American burying beetle (<i>Nicrophorus americanus</i>)	2	1.31	Develop management strategies for the Oklahoma population	Ongoing Current	Prior to FY 1995		Oklahoma Department of Wildlife Conservation , Oklahoma Natural Heritage Inventory , Region 2, Fish and Wildlife Enhancement	Management: Land Use	Internal Field Assistance	Managment needs still to be determined, particularly in Oklahoma. Costs uncertain.
American burying beetle (<i>Nicrophorus americanus</i>)	2	1.32	Manage the Rhode Island population, as appropriate.	Ongoing Current	Prior to FY 1995		The Nature Conservancy, Region 5, Fish and Wildlife Enhancement, Audubon Society of Rhode Island, Rhode Island Division of Fish and Wildlife	Management: Planning	Species Expert	
American burying beetle (<i>Nicrophorus americanus</i>)	1	2.1	Maintain existing captive populations for purposes of research and propagation	Ongoing Current	Prior to FY 1995		Oklahoma Natural Heritage Inventory , Region 5, Fish and Wildlife Enhancement, Boston University, Cincinnati Zoo and Botanical Garden, Region 2, Fish and Wildlife Enhancement, USFWS Region 3, Fish and Wildlife Enhancement	Management: Reintroduction, Research: Propagation, Research: Taxonomic Studies	Labor type not yet selected	Captive populations are maintained for research and propagation
American burying beetle (<i>Nicrophorus americanus</i>)	2	2.11	Determine genetic diversity within and between wild populations.	Partially Complete	Prior to FY 1995		Region 5, Fish and Wildlife Enhancement, Boston University, Region 2, Fish and Wildlife Enhancement, Oklahoma University	Research: Genetics	Graduate Student	\$10,000 was spent in FY91
American burying beetle (<i>Nicrophorus americanus</i>)	1	2.12	Rear beetles for reintroduction purposes	Ongoing Current	Prior to FY 1995		Oklahoma Natural Heritage Inventory , Region 5, Fish and Wildlife Enhancement, Boston University, Cincinnati Zoo and Botanical Garden, Region 2, Fish and Wildlife Enhancement, USFWS Region 3, Fish and Wildlife Enhancement	Management: Reintroduction	Graduate Student	Costs included under 2.1?

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American burying beetle (Nicrophorus americanus)	3	2.2	Establish additional captive populations	Complete	Prior to FY 1995	FY 2008	American Association of Zoological Parks and Aquariums, Region 2, Fish and Wildlife Enhancement	Management: Reintroduction	Volunteer	
American burying beetle (Nicrophorus americanus)	1	3	Continue Penikese Island reintroduction effort.	Complete	Prior to FY 1995	Prior to FY 1995	Region 5, Fish and Wildlife Enhancement, Massachusetts Division of Fisheries and Wildlife, Boston University	Management: Reintroduction	Internal Field Assistance	R5 FWE & MADFW costs 1.5 per year, BU costs .5 per year; 3 years for population to become established, then gradual reduction of management intervention.
American burying beetle (Nicrophorus americanus)	3	4.1	Conduct population modeling.	Complete	FY 2006	FY 2006	Region 5, Fish and Wildlife Enhancement	Research: Demographic Studies	Species Expert	
American burying beetle (Nicrophorus americanus)	2	4.2	Investigate ecological relationships at the Oklahoma population.	Ongoing Current	Prior to FY 1995		Oklahoma Department of Wildlife Conservation , Oklahoma Natural Heritage Inventory , Region 2, Fish and Wildlife Enhancement	Research: Competition, Research: Genetics, Research: Habitat Requirements, Research: Habitat Status, Research: Other Information, Research: Population Surveys	Labor type not yet selected	
American burying beetle (Nicrophorus americanus)	3	4.3	Investigate land use and ecology of recent collection localities.	Ongoing Current	Prior to FY 1995		Region 5, Fish and Wildlife Enhancement, State Natural Heritage Programs and natural resource agencies, Region 2, Fish and Wildlife Enhancement, USFWS Region 3, Fish and Wildlife Enhancement, USFWS Regional Office 4 - Fish and Wildlife Enhancement, USFWS Regional Office 6 - Fish and Wildlife Enhancement, State nongame and Endangered Species Programs	Research: General, Research: Habitat Requirements, Research: Habitat Status, Research: Population Surveys	Labor type not yet selected	Costs are \$5k per each of the 5 Regions in FY1 & FY2;

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American burying beetle (<i>Nicrophorus americanus</i>)	1	5	Prioritize areas and conduct surveys for additional populations	Ongoing Current	Prior to FY 1995		Region 5, Fish and Wildlife Enhancement, State Natural Heritage Programs and natural resource agencies, Region 2, Fish and Wildlife Enhancement, USFWS Region 3, Fish and Wildlife Enhancement, USFWS Regional Office 4 - Fish and Wildlife Enhancement, USFWS Regional Office 6 - Fish and Wildlife Enhancement, Other Federal land managing agencies such as the U.S. Forest, National Park Service, Bureau of Reclamation, Tennessee Valley Authority, Department of Defense (including Corps of Engineers, Army, Air Force, and Marine Corps), Public Utilities Commission, Rural Electrification Administration, and Bureau of Indian Affairs, State nongame and Endangered Species Programs, University of Nebraska State Museum	Research: Habitat Status, Research: Population Surveys	Species Expert	Costs are \$10k per each of the 5 regions/per year; Additional populations should be identified in order to ensure their protection.

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American burying beetle (<i>Nicrophorus americanus</i>)	2	6	Characterize habitat at all known localities.	Complete	Prior to FY 1995	FY 2006	Region 5, Fish and Wildlife Enhancement, State Natural Heritage Programs and natural resource agencies, Region 2, Fish and Wildlife Enhancement, USFWS Region 3, Fish and Wildlife Enhancement, USFWS Regional Office 4 - Fish and Wildlife Enhancement, USFWS Regional Office 6 - Fish and Wildlife Enhancement, State nongame and Endangered Species Programs	Research: Habitat Requirements, Research: Habitat Status	Graduate Student, Internal Field Assistance	Costs are \$5k per each of the 5 Regions in FY2 & FY3; Funding in Regions 3,4, and 6 contingent upon the discovery of additional populations.
American burying beetle (<i>Nicrophorus americanus</i>)	1	7	Conduct additional reintroductions and manage new populations	Ongoing Current	Prior to FY 1995		Region 5, Fish and Wildlife Enhancement, State Natural Heritage Programs and natural resource agencies, Region 2, Fish and Wildlife Enhancement, USFWS Region 3, Fish and Wildlife Enhancement, USFWS Regional Office 4 - Fish and Wildlife Enhancement, USFWS Regional Office 6 - Fish and Wildlife Enhancement, State nongame and Endangered Species Programs	Management: General, Management: Habitat Maintenance and Manipulation, Management: Propagation, Management: Reintroduction	Internal Field Assistance, Species Expert, Volunteer	Costs are \$10k in Regions 2 & 5 in FY1, \$10k in Regions 2, 4, 5 & 6 in FY2 & FY3; Actions will not be required in every region each year. R3 reintroductions will most likely be initiated after FY3.
American burying beetle (<i>Nicrophorus americanus</i>)	3	8	Continue to conduct research into the species' decline	Ongoing Current	Prior to FY 1995		Region 5, Fish and Wildlife Enhancement, Region 2, Fish and Wildlife Enhancement	Research: Competition, Research: Demographic Studies	Contract, Internal Technical Assistance	Costs are \$5 k for R2 and \$2.5k for R5; These costs will continue into FY4.

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American burying beetle (<i>Nicrophorus americanus</i>)	3	9	Conduct information and education programs	Ongoing Current	Prior to FY 1995		Region 5, Fish and Wildlife Enhancement, State Natural Heritage Programs and natural resource agencies, Region 2, Fish and Wildlife Enhancement, USFWS Region 3, Fish and Wildlife Enhancement, USFWS Regional Office 4 - Fish and Wildlife Enhancement, USFWS Regional Office 6 - Fish and Wildlife Enhancement, State nongame and Endangered Species Programs	Other: Information and Education	Internal Administrative	Costs are \$1.5 per each of the 5 regions, per year.